

Session 1: IT & Performance Issues

Near Term

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General:

- Ability to compile laps code with ifort or gfortran.
- If not compiled with pgf90, variables not automatically initialized to 0.
(Is there a flag for ifort to force this? May not work for all exe?)
- Pre compiled 32-bit downloads on the web are actually 64-bit?
- Encouraged by efforts started with MPI in wind and future plans for STMAS.
Make this a focus as most NWS processors are now multi processor. Find out how many processors will be standard on machines. Don't use all of them.
- Ability for things like remap-polar to process different radars simultaneously
(coarse level parallelization)
- sched.pl will not work with sge (works only for pbs or torque? Needs qsub-wait?)
- wdgi scripts...what *didn't* get in...would be nice
- Script to summarize how a laps run completed (pulled from log files)
- Documentation of translation from little files to bigfile and file extensions.
- CF convention for netCDF files (would enable GIS output).
- Move from netCDF-3 to netCDF-4...compression and sub-grid (grib2HDF5?)
- Need translation in log files between file extensions and english wording,
eg. lapsprep log file.
- Use wrf-portal to run LAPS?
- Use WRF geogrid to localize LAPS (just gridgen_model part)? (Brent?)

AWIPS2:

- 8-bit radar may not work in AWIPS 1?
- Need to implement a latency log of data extracted from EDEX
- In AWIPS2 have pulling from EDEX run automatically on receipt of data
- In AWIPS2 use py pies to pull data directly from EDEX?
- Investigate f2py interface from python to FORTRAN to pull data from EDEX directly.
- Do a new summary of what data is available from EDEX
- AWIPS2 monitor - apache server...put LAPS into it?
- LAPS GUI for re-localization in AWIPS2...can we use WRF domain-wizard?
- Move away from needing the AWIPS 1 tree to localize and run LAPS in AWIPS2.